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**west virginia** department of environmental protection

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Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

October 31, 2014

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-6101335, issued to NOUMENON CORPORATION, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin  
Chief

Operator's Well No: 11L2  
Farm Name: TENNANT, WILLIAM  
**API Well Number: 47-6101335**  
**Permit Type: Plugging**  
Date Issued: 10/31/2014

**Promoting a healthy environment.**

## PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

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### CONDITIONS

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

6101335CP  
1) Date August 12, 20 14  
2) Operator's  
Well No. 11L2  
3) API Well No. 47-061 - 01335-C

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil \_\_\_\_ / Gas X / Liquid injection \_\_\_\_ / Waste disposal \_\_\_\_ /  
(If "Gas, Production \_\_\_\_ or Underground storage \_\_\_\_) Deep \_\_\_\_ / Shallow X
- 5) Location: Elevation 330 meters Watershed Monongahela River  
District Clay County Monongalia Quadrangle Blacksville
- 6) Well Operator Noumenon Corporation 7) Designated Agent Lonnie Atkins  
Address 2461 Mason Dixon Hwy Address 2461 Mason Dixon Hwy  
Core, WV 26541 Core, WV 26541
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Gayne Knitowski Name Noumenon Corporation  
Address P.O. Box 108 Address 2461 Mason Dixon Hwy  
Gorman, WV 26720 Core, WV 26541

- 10) Work Order: The work order for the manner of plugging this well is as follows:  
**See Attached Work Order**

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector

Gayne J Knitowski

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WV Department of  
Environmental Protection  
Date 8/27/2014

6101335C-P

**McLaughlin, Jeffrey W**

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**From:** Russell Bolyard <rbolyard@lauritaenergy.com>  
**Sent:** Thursday, October 30, 2014 2:57 PM  
**To:** McLaughlin, Jeffrey W  
**Subject:** Affidavit and Bond Hole information  
**Attachments:** Affidavits for Noumenon.pdf

Jeffery, sorry for the delay, I had to wait to talk to Mr. Shuman regarding the Bond Hole test he said he is fine with proceeding on to a couple of tests in the field to verify that the casing for the degas holes we intend to plug are cemented in as we have represented. I attached a pdf of Affidavits for all of the plugging permits I submitted to date. Let me know how to proceed from here, Thanks Russell

Russell L. Bolyard  
Laurita Energy LLC  
Business Development Manager  
P.O. Box 182  
Granville, WV 26534  
[rbolyard@lauritaenergy.com](mailto:rbolyard@lauritaenergy.com)  
Phone: (304) 692-0556

NO AFFIDAVIT  
FOR THIS WELL.

AFFIDAVITS FOR: 061- 01336-C  
01337-C  
01339-C  
01344-C  
01349-C  
01350-C  
01351-C  
01352-C  
01355-C  
01357-C  
01359-C  
01360-C  
01362-C  
01363-C  
01361-C



**WW-4B**  
**Application for Permit to Plug or Abandon**  
**Section 10-Work Order**


**API Well No:** 47-061-01335-C


**Operator Well #:** 11L2

**Well History:** Well 11L2 which was converted in 1998 to a Coal Bed Methane recovery well, previously the well had been installed as a Degas/Ventilation hole to support deep mining operations of the CONSOL Humphrey No. 7 Mine which was located in the Pittsburgh coal seam. According to Mr. Roger Duckworth, 37 Sand Plant Rd, Worthington, WV 26591 who was employed by CONSOL for many years and whose primary responsibility was to manage the DeGas development operations within the mine area the following procedures were used to construct the Degas Wells: The wells were generally drilled to the Sewickley Coal seam or approximately 90-100 feet above the Pittsburgh coal seam. The holes were cased and cemented in with solid steel pipe of varying diameters through the Waynesburg coal seam. Below the Waynesburg coal a slotted steel pipe was installed to the Sewickley Coal Seam. It was generally understood that the strata that broke above the mine due to subsidence would typically roofed out in or around the Sewickley Horizon this allowed the methane gas to then vent through the holes and the slotted pipe helped maintain an open pathway to the surface if the strata shifted.

**Casing Diameter:** 8" **Casing Thickness:** ¼" **Casing Reported Depth:** 556.0'

**Estimated Casing Weight:** 15,874 lbs. **Required lifting Capacity:** 23,811 lbs.

 **Casing Retrieval (35-4-13.6):** Noumenon Corporation will make a reasonable effort to cut and pull all recoverable casing from the well. Noumenon Corporation proposes to use a Bucyrus-Erie 28L Spudder Rig or other similar type equipment with a lifting capacity of at least 150% the estimated weight of the casing to perform the extraction process. If the pipe can be removed it will be brought to the surface in manageable lengths and cut using a Hydraulic Cut off saw, the pipe will be stockpiled for later removal or loaded immediately onto a trailer for removal to the Noumenon supply yard or taken straight to a salvage yard. If the casing cannot be pulled with reasonable effort then the operator will make reasonable attempts to perforate the pipe and squeeze cement behind the pipe in the grouting process so as to prevent contamination of the fresh water zone.

 **Plugging Methods (35-4-14):** The operator shall remove/bail all oils and or salt waters from the well prior to initiating the plugging process. The operator will install a bottom plug that is 100 feet thick from the base of the well using API Class A Portland Hydraulic Cement (with a Calcium Chloride content of 3% or less and no other additives) On top of the bottom plug the operator may install a Spacer plug of 6% Bentonite gel using a mixture rate of 100 lbs per 5bbl of water. The operator would then install a top or surface plug of cement as per the criteria mentioned above, a minimum of 100' feet below the surface. The Cement grout and bentonite gel shall be placed in the hole under pressure using a tremie tube and grout pump. No workable coal seams lie above the Sewickley coal seam.

**Plugging and Well Records (35-4-12.1):** The operator and or contractor hired to perform the plugging shall maintain a log or records of such detail that the entries and related data on Form WR-38 "Affidavit of Plugging and Filling Well" can be completed. The WR-38 shall reflect all data discovered or changes made after the permitted well work has been finished.

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**Reclamation of the Site:** Upon completion of the well plugging all equipment, piping and other debris from the plugging operation shall be removed from the site. All disturbance created by the plugging or access to the well site shall be reclaimed and vegetated to prevent erosion and sedimentation. The operator shall use utilize WV Department of Environmental Protections Best Management Practices as the criteria for Erosion and Sediment Control and revegetation.

**Monument:** Upon completion of the site reclamation and in conjunction with the closure of the well the operator shall install a monument in accordance with 35-4-(5) (b) and as follows:

1. The monument shall be made of steel pipe.
2. The diameter shall be 6"
3. The pipe shall be imbedded into the well head 10 feet below the surface level and protrude 30" above the ground surface.
4. The pipe shall be sealed with concrete cement.
5. The API Number shall painted onto the pipe in 1/2" height numbering.

**Responsible Parties:** The operator, contractors and drillers including all service companies are directed that they shall comply with WV Code 22-6



IF 8" CASING WAS CEMENTED TO SURFACE  
IT IS NOT NECESSARY TO PULL OR PERFORATE CASING

JMM

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1) Well Operator: Noumenon Corporation 2) Well Name 11L2

3) Operator's Well Number 11L2 4) Elevation 1056'

5) Well Type: (a) Oil        / or- Gas        /  
(b) If Gas: Production        / Underground Storage        / CBM<sup>X</sup>        /  
Deep        / Shallow        /

6) Proposed Target Formation(s): N/A

7) Proposed Total Depth: 300' feet As determined by wire line - 1998

8) Approximate Fresh Water Strata Depths: Unknown

9) Approximate Salt Water Depths: Unknown

10) Approximate Coal Seam Depths: Pittsburgh 400' - See Attachment

11) Does Land Contain Coal Seams Tributary to Active Mines? Yes        / No X /

12) (a) Proposed Well Work: Conversion to CBM Well

(b) If Stimulation Proposed, Describe Means to be Used to Stimulate Well: NA

13) (a) Does the proposed operation plan to convert an existing well (as defined in W. Va. Code § 22-6-1) or a vertical ventilation hole to a coalbed methane well? Yes X / No    /

(b) If yes, please attach to this Application a list of all formations from which production is anticipated and a description of any plans to plug any portion of the well.

14) (a) Will the proposed coalbed methane well be completed in some but not all coal seams for production (except for a gob well or vent hole proposed to be converted to a well)?  
Yes        / No        /

(b) If yes, please attach to this Application a plan and design for the well which will protect all workable coal seams which will be penetrated by the well.

15) (a) Does the proposed operation include horizontal drilling of a well commenced on the surface? Yes        / No X /

(b) If yes, please attach to this Application a description of such operations, including both the vertical and horizontal alignment and extent of the well from the surface to total depth.



CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS	FOOTAGE INTERVALS			CEMENT	
	Size	Grade	Weight per ft.	For Drilling	Left in Well	Fill-up (cu. ft.)
Conductor	8"				556'	
Fresh Water						
Coal						
Intermediate						
Production						
Tubing						
Liners						

PACKERS:

## For Office of Oil and Gas Use Only

☐ Fee(s) paid: ☐ Well Work Permit ☐ Reclamation Fund ☐ WPCP  
☐ Plat ☐ WW-9 ☐ WW-5B ☐ Bond \_\_\_\_\_ ☐ Agent  
 (Type)



## ATTACHMENT WW-5B-10

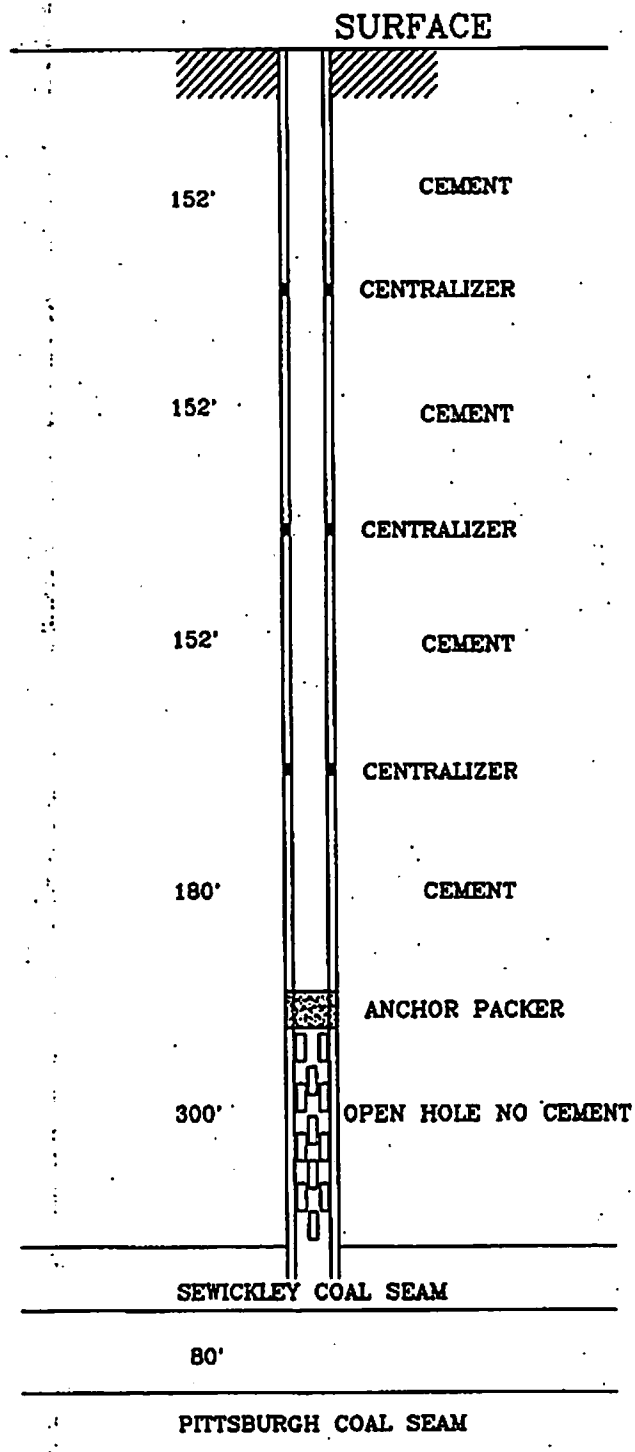
Well # 11L2Approximate Pittsburgh coal elevation: 400'Approximate surface elevation: 1056'

Within 750 horizontal feet and 100 vertical feet of the Pittsburgh coal seam, there are no workable coal seams due to the thickness, quality, and marketability as per the WV Geological Survey Reports of 1913 for Monongalia County.

According to the WV Geological Report, the General Interval for the coal seams located above the Pittsburgh coal seam are:

Washington	510 feet	approximate thickness 2.0
Waynesburg-A	420 feet	approximate thickness 2.0
Waynesburg	360 feet	approximate thickness 5.0
Sewickley	100 feet	approximate thickness 5.0
Redstone	25 feet	approximate thickness 2.0

There is no known commercial development of these seams in the area of the Coalbed Methane Well.



DEPTH - VARIES  
 DIAMETER - VARIES  
 3/4" CASING THICKNESS

TYPICAL BOREHOLE PLAN  
 FOR ALL  
 DEGASIFICATION BOREHOLES

NOT TO SCALE

WW-4A  
Revised 6-07

1) Date: August 12th, 2014

2) Operator's Well Number  
11L2

3) API Well No.: 47 - 061 - 01335-C

**STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL**

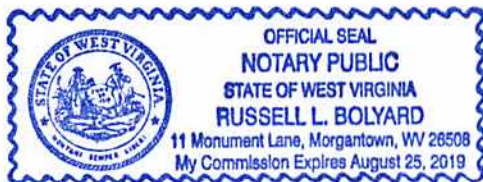
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name William Gary Tennant ✓	Name Murray Energy Corporation ✓
Address 107 Memorial Rd.	Address 46226 National Road
Fairview, WV. 26570	St. Clairsville, OH 43950 ✓
(b) Name Mary Tennant ✓	(b) Coal Owner(s) with Declaration
Address 107 Memorial Rd.	Name
Fairview, WV 26570	Address
(c) Name	Name
Address	Address
6) Inspector Gayne Knitowski	(c) Coal Lessee with Declaration
Address P.O. Box 108	Name
Gorman, WV 26720	Address
Telephone (304) 546-8171	

**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator Noumenon Corporation  
By: *[Signature]*  
Its: President  
Address 2461 Mason Dixon Hwy  
Core, WV 26541  
Telephone 304 296-5460

Subscribed and sworn before me this 25<sup>th</sup> day of August

My Commission Expires August 25th, 2019

Notary Public

**Oil and Gas Privacy Notice**

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

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# SURFACE OWNER WAIVER

Operator's Well  
Number

11L2

## INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**  
**WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

**Time Limits and methods for filing comments.** The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

**Comments must be in writing.** Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

## **VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON  
ETC.

FOR EXECUTION BY A CORPORATION,

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WV Department of  
Environmental Protection

William H. Zeman  
Signature

Date 8/29/14 Name \_\_\_\_\_  
By \_\_\_\_\_  
Its \_\_\_\_\_

Signature

Date



6101335CP

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**OFFICIAL USE**

Postage	\$1.40	0890
Certified Fee	\$3.30	03
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
<b>Total Postage &amp; Fees</b>	<b>\$7.40</b>	<b>08/26/2014</b>

Sent To  
 William Gary Tennant  
 Street, Apt. No.,  
 or PO Box No. 107 Memorial Rd  
 City, State, ZIP+4 Fairview, WV 26570

PS Form 3800, August 2006 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature            x Mary L. Tennant <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery            Mary L. Tennant 8/27/14</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes            If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:            William Gary and Mary Tennant            107 Memorial Rd            Fairview, WV 26570</p>	<p>3. Service Type  <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™  <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p>
<p>2. Article Number            (Transfer from service label)            7010 1670 0000 4944 1242</p>	<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>PS Form 3811, July 2013 Domestic Return Receipt</p>	

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U.S. Postal Service<sup>TM</sup>  
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For delivery information visit our website at [www.usps.com](http://www.usps.com)  
 SAINT CLAIRSVILLE OH 43950

**OFFICIAL USE**

Postage	\$ 5.80	0890
Certified Fee	\$3.30	03
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 11.80	08/26/2014

Sent To: Murray Energy Corporation  
 Street, Apt. No., or PO Box No.: 46226 National Rd  
 City, State, ZIP+4: St. Clairsville OH 43950

PS Form 3800, August 2005 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature  <input checked="" type="checkbox"/> Agent  <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name)            R. Kites</p> <p>C. Date of Delivery            AUG 26 2014</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes            If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p>Murray Energy Corporation            46226 National Rd            St. Clairsville, OH            43950</p>	<p>3. Service Type  <input checked="" type="checkbox"/> Certified Mail<sup>®</sup> <input type="checkbox"/> Priority Mail Express<sup>™</sup>  <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number            (Transfer from service label)</p> <p>7010 1670 0000 4944 1358</p>	
PS Form 3811, July 2013	Domestic Return Receipt

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STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GASCONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGEOperator Name Noumenon Corporation OP Code \_\_\_\_\_Watershed Monongahela River Quadrangle BlacksvilleElevation 330 meters County Monongalia District ClayDescription of anticipated Pit Waste: Not ApplicableWill a synthetic liner be used in the pit? NOANY WELL EFFLUENT MUST BE  
CONTAINED IN TANKS & DISPOSED  
OF PROPERLY.

Proposed Disposal Method For Treated Pit Wastes:

- \_\_\_\_\_ Land Application  
 \_\_\_\_\_ Underground Injection (UIC Permit Number \_\_\_\_\_)  
 \_\_\_\_\_ Reuse (at API Number \_\_\_\_\_)  
 \_\_\_\_\_ Off Site Disposal (Supply form WW-9 for disposal location)  
 \_\_\_\_\_ Other (Explain \_\_\_\_\_)

Proposed Work For Which Pit Will Be Used:

- \_\_\_\_\_ Drilling \_\_\_\_\_ Swabbing  
 \_\_\_\_\_ Workover \_\_\_\_\_ Plugging  
 \_\_\_\_\_ Other (Explain \_\_\_\_\_)

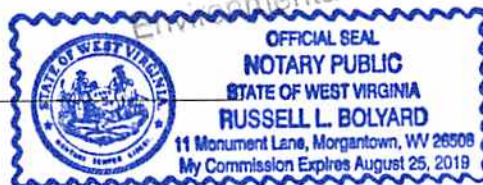
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature \_\_\_\_\_

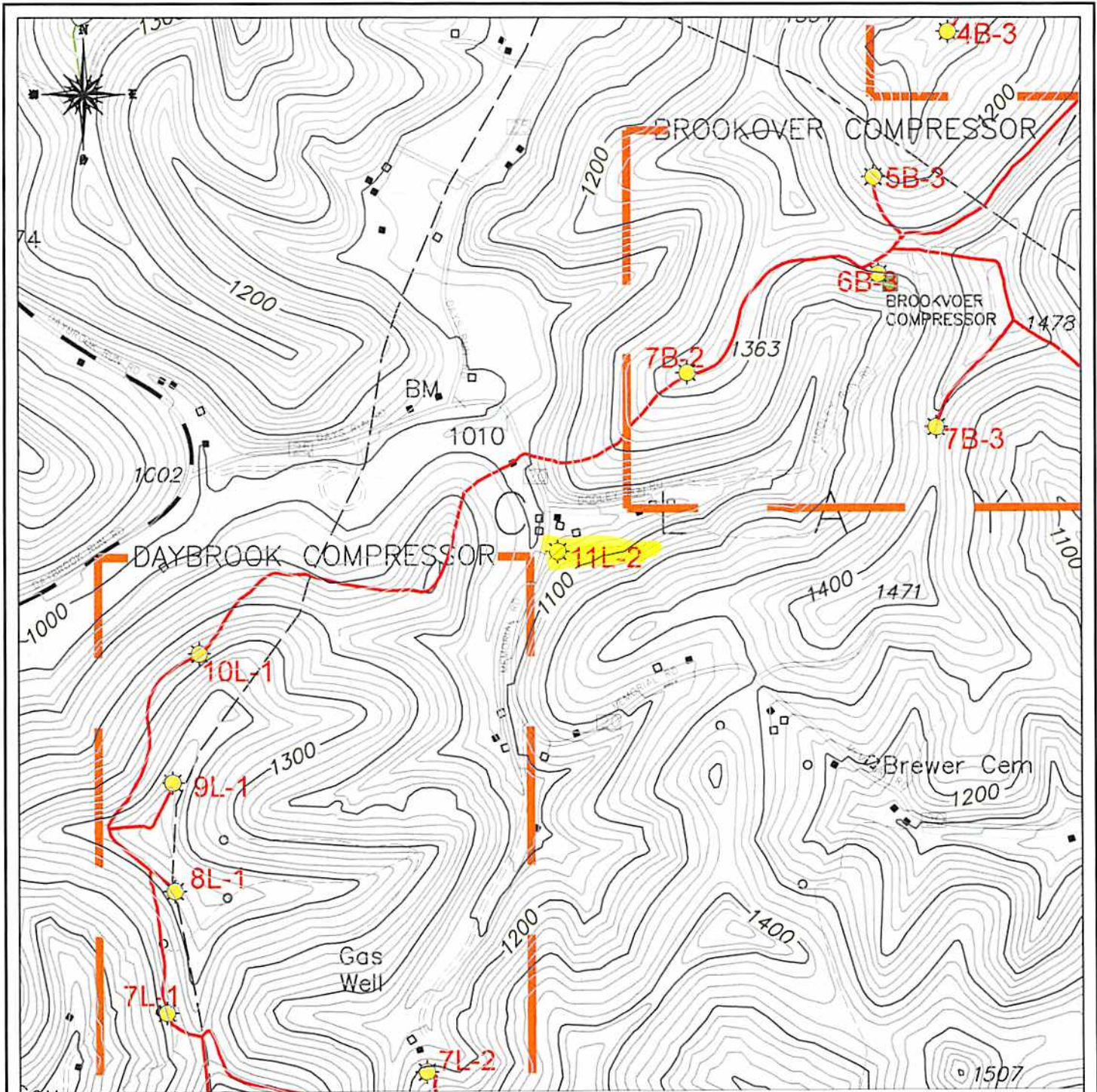
Company Official (Typed Name) Stephen K. ShumanCompany Official Title PresidentSubscribed and sworn before me this 25<sup>th</sup> day of August, 2014

Russell L. Bolyard Notary Public




My commission expires August 25th, 2019

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SEP 16 2014



**LEGEND**

UTM ZONE 17 S  
 EASTING: 569,121.60  
 NORTHING: 4,391,598.88  
 ELEVATION: 330 M

SURVEYED CBM WELL LOCATION   
 NON-SURVEYED CBM WELL LOCATION   
 GAS LINE 

0 FT 1000 FT 2000 FT

**LOCATION MAP**

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 NUCLEON CORPORATION  
 2461 MASON DIXON HIGHWAY  
 CORE WV 26541

SEP 16 2014  
 WV Department of Environmental Protection  
**API WELL NO. - 47-061-1335-C**

**OPERATOR'S WELL NO. - 11L2**

CLAY DISTRICT- MONONGALIA COUNTY, WV  
 7.5 MINUTE SERIES- 20' CONTOUR INTERVAL  
 BLACKSVILLE, WV TOPO QUAD



WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas  
**WELL LOCATION FORM: GPS**

API: 47-061-01335-C WELL NO.: 11L2

FARM NAME: William Gary Tennant

RESPONSIBLE PARTY NAME: Lonnie Atkins

COUNTY: Monongalia DISTRICT: Clay

QUADRANGLE: Blacksville

SURFACE OWNER: William Gary Tennant and Mary Tennant

ROYALTY OWNER: William Gary Tennant

UTM GPS NORTHING: 4391598.88

UTM GPS EASTING: 569121.60 GPS ELEVATION: 330 1056'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS \_\_\_\_: Post Processed Differential \_\_\_\_

Real-Time Differential \_\_\_\_

Mapping Grade GPS X: Post Processed Differential \_\_\_\_

Real-Time Differential X

4. Letter size copy of the topography map showing the well location.

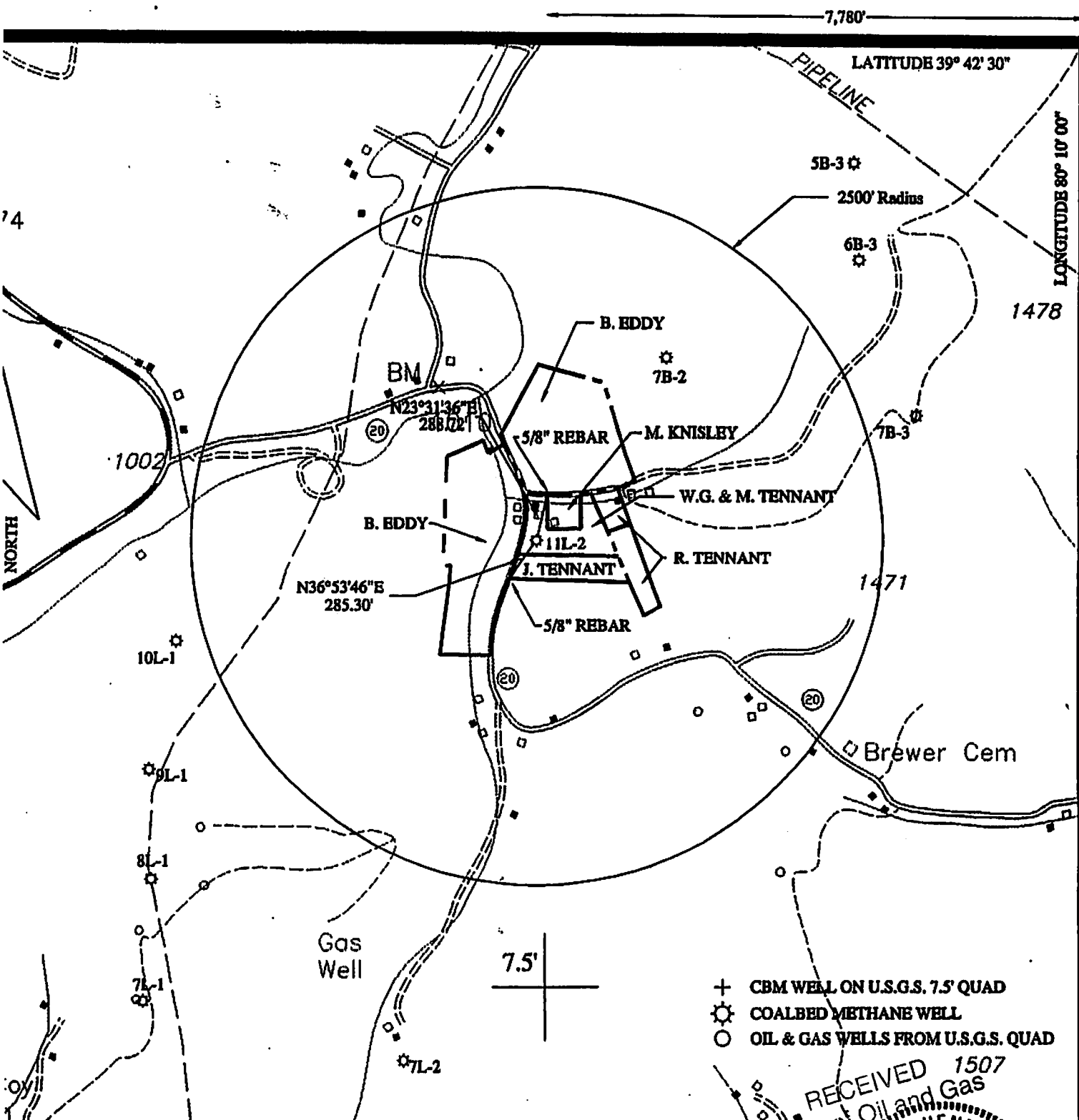
I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

[Signature]  
Signature

President  
Title

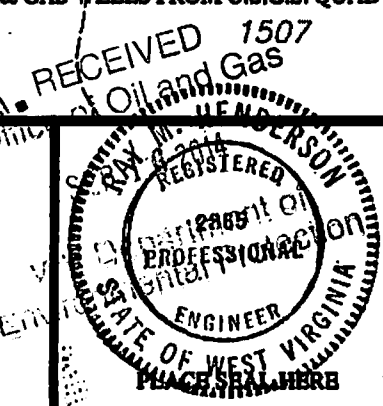
8/25/14  
Date

RECEIVED  
Office of Oil and Gas  
SEP 16 2014  
WV Department of  
Environmental Protection



FILE NO. MEN 40-0003  
DRAWING NO. LAYER: GW-11L2  
SCALE 1" = 1000'  
MINIMUM DEGREE OF  
ACCURACY SUB-METER GPS;  
TRIMBLE XR-PRO DIFFERENTIAL GPS  
PROVEN SOURCE OF  
ELEVATION DIFFERENTIAL GPS

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS  
PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE  
AND BELIEF AND SHOWS ALL THE INFORMATION  
REQUIRED BY LAW AND THE REGULATIONS ISSUED  
AND PRESCRIBED BY THE DIVISION OF  
ENVIRONMENTAL PROTECTION  
(SIGNED) Ray M. Henderson  
R.P.E. WV 2865 L.L.S.



STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OIL AND GAS DIVISION

DATE MAY 28, 1998  
OPERATOR'S WELL NO. 11L-2  
API WELL NO. \_\_\_\_\_  
47 - 061 - 1333-C  
STATE COUNTY PERMIT

WELL TYPE: OIL ☐ GAS ☒ LIQUID INJECTION ☐ WASTE DISPOSAL ☐  
(IF "GAS,") PRODUCTION ☒ STORAGE ☐ DEEP ☐ SHALLOW ☐

LOCATION: ELEVATION 1056.47' WATERSHED DAYS RUN  
DISTRICT CLAY COUNTY MONONGALIA  
QUADRANGLE BLACKSVILLE, WV-PA

SURFACE OWNER W. & M. TENNANT ACREAGE 3 AC  
OIL & GAS ROYALTY OWNER WACO, INC. et al LEASE ACREAGE 306.418 ac  
COAL OWNER CONSOLIDATION LEASE NO. 524-001.002.003

PROPOSED WORK: DRILL ☐ CONVERT ☒ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR  
STIMULATE ☐ PLUG OFF OLD FORMATION ☐ PERFORATE NEW  
FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ☐  
PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG ☐

TARGET FORMATION PITTSBURGH ESTIMATED DEPTH \_\_\_\_\_  
WELL OPERATOR NOUMENON DESIGNATED AGENT STEPHEN K. SHUMAN  
ADDRESS P.O. BOX 842 ADDRESS 256 HIGH STREET  
MORGANTOWN, WV 26505 MORGANTOWN, WV 26505

MONONGALIA  
COUNTY NAME  
PERMIT